

Title (en)

SYSTEM FOR VARYING CYLINDER VALVE TIMING IN AN INTERNAL COMBUSTION ENGINE

Title (de)

SYSTEM ZUR VERÄNDERUNG DER ZYLINDERVENTILSTEUERZEITEN EINES VERBRENNUNGSMOTORS

Title (fr)

SYSTÈME DESTINÉ À FAIRE VARIER LA SYNCHRONISATION DES SOUPAPES DE CYLINDRE DANS UN MOTEUR À COMBUSTION INTERNE

Publication

EP 3121396 A1 20170125 (EN)

Application

EP 16275101 A 20160714

Priority

US 201514808685 A 20150724

Abstract (en)

A control system for varying cylinder valve timing of an internal combustion engine is provided. The control system includes a cam phase actuator having first and second actuator ports to adjust a rotational phase of a camshaft relative to a crankshaft, a first control valve, a second control valve, and a dynamic regeneration valve. In one embodiment, the dynamic regeneration valve is configured to enable the cam phase actuator to switch between operating in an oil pressure actuated mode and a cam torque actuated mode when adjusting the rotational phase of the camshaft relative to the crankshaft.

IPC 8 full level

F01L 1/344 (2006.01)

CPC (source: CN EP)

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Citation (search report)

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Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

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